

**Notice of Allowability**

|                  |                    |  |
|------------------|--------------------|--|
| Application No.  | Applicant(s)       |  |
| 10/710,842       | KWUN-YAO HO ET AL. |  |
| Examiner         | Art Unit           |  |
| Jasmine J. Clark | 2815               |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to \_\_\_\_\_.
2.  The allowed claim(s) is/are 1-21.
3.  The drawings filed on 06 August 2004 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some\*    c)  None    of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

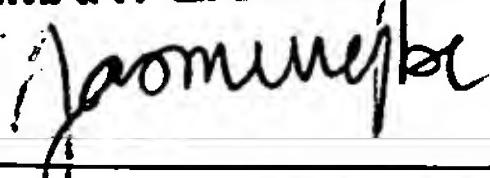
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a)  including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
    1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.  
(b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of  
    Paper No./Mail Date \_\_\_\_\_.  
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
    Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
    of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
    Paper No./Mail Date \_\_\_\_\_
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_

**JASMINE CLARK  
PRIMARY EXAMINER**



**References Cited**

1. The references of interest are cited:

Gorowitz et al. (US 5,757,072) show a structure of a device, comprising a carrier with a surface (see Fig. 1); a plurality of chips 12; an insulation layer 120 positioned on the surface of the carrier, wherein the insulation layer has a plurality of via holes, and a depth of the via hole in a direction perpendicular to the surface of the carrier; and a patterned metallic layer positioned on the insulation layer and filling the via holes, wherein the patterned metallic layer serves as interconnecting lines inside the device. However, Gorowitz fails to teach having at least two chips are stacked, and having the via holes that linked to the surface of the carrier as set forth in claim 1. Furthermore, Gorowitz fails to teach a process of fabricating a multi-package as set forth in claim 8 and the limitations as set forth in claim 16.

Please also see Her et al. (US 6,650,009 B2), Fillion et al. (US 6,239,482 B1), Tsunashima (US 6,087,719), Wojnarowski et al. (US 5,703,400), Chen et al. (US 6,680,529 B2), Iovdalsky et al. (US 6,057,593), Mowatt et al. (US 6,400,573 B1), Lin (US 5,886,401), Eichelberger (US 5,841,193), and Imaoka et al. (US 5,825,080).

***Field of Search***

2. This application was searched, in class 257, subclasses 723, 685, 686, and class 438, subclass 109, in view of the limitations of the claimed invention. This search was ineffective.

***Allowable Subject Matter***

3. Claims 1-21 are allowed.

The following is an examiner's statement of reasons for allowance: please see the above discussion in paragraph 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Telephone Inquiry Contacts***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jasmine J. Clark whose telephone number is (571) 272-1726. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jjbc/05/02/05

JASMINE CLARK  
PRIMARY EXAMINER

